

ABSTRACT

[0046] Disclosed is a system for distributing information and photonic energy into at least one room of a building, comprising a lighting generator for generating visible light energy, an infrared (IR) heat generator for generating IR heat energy, and an optical fiber subsystem for transceiving at least one of the visible light energy and the IR heat energy into the at least one room, wherein the optical fiber subsystem can carry optical information signals throughout the optical fiber subsystem and radiate the optical information signals as optical wireless signals into the at least one room and receive optical wireless signals from the at least one room.